PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

(ICIA	article 36 and Rule 70)
Applicant's or agent's file reference	
	HER ACTION See Form PCT/IPEA/416
International application No. International fi	
PC1/CN03/01121 25.1	Dec 2003(25.12.2002)
International Patent Classification (IPC) or national classific	eation and IPC
	e supplemental box
Applicant	
M	EI, Xiuquan et al.
 This report is the international preliminary examination under Article 35 and transmitted to the applicant accord 	
2. This REPORT consists of a total of 4	
3. This report is also accompanied by ANNEXES, compris	sheets, including this cover sheet.
a. (sent to the applicant and to the International B	Bureau) a total of sheets, as follows:
L SHOULD OF THE RECEIPTION of Simon and 1/ 1	awings which have been amended and are the basis of this report and by this Authority (see Rule 70.16 and Section 607 of the Administrati
sheets which supercede continued to	
the disclosure in the international applicat	which this Authority considers contain an amendment that goes beyong ion as filed, as indicated in item 4 of Box No. I and the Supplement
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Relating to Sequence Listing (see Section 802 of	otal of (indicate type and number of electronic ed thereto, in electronic form only, as indicated in the Supplemental Bo
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4. This report contains indications relating to the following Box No. I Basis of the report Box No. II Priority Box No. III Non-establishment of opinion with Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35 citations and explanations supporting Box No. VI Certain documents cited Box No. VII Certain defects in the international approximation of the demand Certain observations on the international approximation of the demand 22.Jul.2005(22.07.2005)	regard to novelty, inventive step and industrial applicability (2) with regard to novelty, inventive step or industrial applicability; such statement pplication Date of completion of this report 03.Apr.2006(03.04.2006)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN03/01121

Box			of the report	
			he language, this report is based on:	
	\boxtimes	the inter	national application in the language in which it was filed	
		a transla	tion of the international application into, w	hich is the language of a
			furnished for the purposes of:	
		□intern	ational search (Rules 12.3(a) and 23.1(b))	
		□public	ration of the international application (Rule 12.4(a))	
			ational preliminary examination (Rules 55.2(a) and/or 55.3(a))	
	to th		the elements of the international application, this report is based on (replacement Office in response to an invitation under Article 14 are referred to in this report report):	
			ational application as originally filed/furnished	
	Ш	the descri	puon:	
		pages		as originally filed/furnished
		pages *	received by this Authority on	
		pages *	received by this Authority on	
[the claims:		
		pages		as originally filed/furnished
		pages *	as amended (together wi	th any statement)under Article 19
		pages *	received by this Authority on	,
		pages *	received by this Authority on	
[the drawin pages pages * pages *	received by this Authority on received by this Authority on	as originally filed/furnished
ļ	J	a sequence	listing and/or any related table(s) - see Supplemental Box Relating to Sequence L	isting.
3.]	The amend	ments have resulted in the cancellation of:	
		the the	description, pages	
			claims, Nos.	
		the d	drawings, sheets/figs	
		☐ the	sequence listing (specify):	
		any	table(s) related to sequence listing (specify):	
4.		the column the second	has been established as if (some of) the amendments annexed to this report and list have been considered to go beyond the disclosure as filed, as indicated in the Supples claims, Nos. Irawings, sheets/figs	plemental Box (Rule 70.2(c)).
	ıj t	iem 4 appli	es, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN03/01121

Box No. V Reasoned statement unde citations and explanation	rs Article 35(2 is supporting) with regard to novelty, inventive ste such statement	ep or industrial applicability;
1. Statement:			
Novelty (N)	Claims	1-11	YES
	Claims		
Inventive step (IS)	Claims	1-11	YES
	Claims		
Industrial applicability (IA)	CI.		
madelial applicationity (IA)	Claims		
	Claims		NO NO
2. Citations and explanations (Rule 70.	7)		
<u>-</u>	.7)		
D1: CN1297085A			
None of documents cited in the in	nternational se	arch report disclose the method and t	the pulp according to the claims 1-1
respectively, therefore claims 1-11 have no	ovelty under P	CT Article 33(2).	
D1 discloses a method of using acti	ivated ozone ir	bleaching paper pulp. The method con	mprises the following steps: a) treating
pulp with oxidizing agent to oxidize ligning	i; b) extracting	said pulp by an alkaline extraction trea	tment: c) then adding mineral acid and
mixture of ethanol/DMSO with ozone gobleaching the pulp with hydrogen peroxide	e or chlorine di	oxide.	izing the pulp with an alkali; and d)
Whereas, the method according to	the present ar	oplication comprises the following ste	one: impresenting the move metalical in
resence of active oxygen A and centilosi	c protector co	nposed of metallic ion and it's ligand.	and orinding said material with notive
exygen A, followed by grinding with a application. Thus, the technical schemes of the inventive step under PCT Article 320	of claims 1-11	B. DI does not disclose or suggest are not obvious to a skilled person on t	the method according to the present he basis of D1. Therefore, claims 1-11
have inventive step under PCT Article 33(3).		,
The subject matters of claims 1-11	appear to be	industrially applicable, therefore they l	have industrial applicability under the
erms of Article 33(4)PCT.			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN03/01121

Supplemental Boy		

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
Continuation of: International Patent Classification (IPC)
D21C3/00 (2006.01) i
D21C9/147 (2006.01) i
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